

Practitioner's Docket No. 56513 (45107)

# IN THE UNITED STATES DESIGNATED OFFICE (DO/US)

| <u>PCT/EP00</u>                                     | /04360  | 16 May 2000   | 18 May 1999  |
|---|---|---|--|
| INTERNATION.  | AL APPLICATION NO.                                  | INTERNATIONAL FILING DATE   | PRIORITY DATE CLAIMED  |
| A TRANSDE<br>TITLE OF INVE                          |   | C SYSTEM CONTAINING TOL   | LERODINE   |
| Christoph AR APPLICANT(S)                           | ,   | etrich Wilhelm SCHACHT AND I  | Hans-Michael WOLFF   |
| Box PCT<br>Assistant Con<br>Washington,<br>ATTENTIC |   | S   |  |
| S   | FOR INTERNATIO                                      | FION OF FILING REQUIREM<br>NAL APPLICATION ENTERI<br>ENATED OFFICE (DO/US) UN   | NG NATIONAL  |
|   | (chec   | k and complete the following item, if appl  | licable)   |
| [X]   | This replies to the No. C.F.R. 1.494 (FORM          | otice of Missing Requirements und I PCT/DO/EO/905).   | der 35 U.S.C. § 371 and 37   |
|   | [X] A copy of Fo                                    | ORM PCT/DO/EO/905 accompany   | ies this response.   |
| WARNING:  | and the payment of all the from the priority may be | uding translation of the international apples surcharge(s) in connection with the filing met within twenty-two (22) months from the esult in abandonment. The provisions of period. 37 CFR 1.61(b). | g of these items after twenty (20) months<br>the priority date. Failure to comply with |
|   | CER   | TIFICATION UNDER 37 C.F.R. 1.10*  |  |

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this Completion of Filing Requirements and the papers indicated as being transmitted therewith is being deposited with the United States Postal Service on this date April <u>25</u>, 2002, in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number <u>EL932681517US</u>, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Susan M. Dillon
(type or print name of person mailing paper

Susan M Oillon
Signature of person mailing paper

WARNING:

Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

\*WARNING:

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label

placed thereon prior to mailing. 37 C.F.R 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Completion of Filing Requirements for International Application Entering National Stage in Designated Office (DO/US) under 35 USC 371--page 1 of 6)

NOTE: The completion of the filing requirements within 22 months (instead of 20 months) from the priority date results from the Commissioner exercising his judgment under the authority granted under 35 USC 371(d). The filing receipt will show the actual date of receipt of the last item completing the entry into the national phase. See 37 CFR 1.491 which states: "An international application enters the national stage when the applicant has filed the documents and fees required by 35 USC 371(c) within the periods set forth in § 1.494 and § 1.495."

WARNING: Where the items being submitted to complete the antity of the international application into the national

WARNING:

Where the items being submitted to complete the entry of the international application into the national phase are subsequent to 20 months from the priority date, the application is still considered to be in the international stage. If mailing procedures are utilized to obtain a date, the express mad procedure of 37 CFR 1.10 must be used (because international application papers are not covered by an ordinary certificate of mailing, 37 CFR 1.8(2)(xi).

NOTE: Documents and fees must be clearly identified as a submission to enter the national stage under 35 USC 371.

Otherwise, the submission will be considered as being made under 35 USC 111. 37 CFR 1.494(f).

#### **DECLARATION OR OATH**

I. [X] No original declaration or oath was filed. Enclosed is the original declaration or oath for this application.

NOTE: For surcharge fee for filing declaration after filing date, complete item IV(2).

NOTE: Acceptable minimums in the declaration in an ordinarily filed U.S. application for identification of the specification to which it applies are the name of the inventor and (1) serial number, (2) attorney docket number that was on the application as filed and the filing date, (3) title of the invention and filing date, (4) title of invention and reference to a specification that is attached to the declaration at the time of execution and filed with the declaration, or (5) title of invention and a statement by a registered attorney that the application filed in the PTO is the application that the inventor executed by signing the declaration. If identification (4) is used, it must be accompanied by a statement that the "attached" specification is a copy of the specification and any amendments thereto that were filed in the PTO to obtain the filing date. Such a statement must be a verified statement if made by a person not registered to practice before the PTO. Notice of September 12, 1983 (1035 O.G. 3).

NOTE: Another minimum found acceptable in the declaration is the filing date (i.e., date of express mail) and the express mail number, useful where the serial number is not yet known. But note the practice where the express mail deposit is a Saturday, Sunday or holiday within the District of Columbia. 37 CFR 1.10(c).

NOTE: 37 CFR 1.41(a) points out that "Full names must be stated, including the family name and at least one given name without abbreviation together with any other given name or initial."

(complete (a) or (b), if applicable)

### Attached is a

| (a) | [] | Statement by a registered attorney that the application filed in the PTO is the    |
|-----|----|--|
|     |    | application that the inventor executed by signing the declaration.                 |
| (b) | [] | Statement that the "attached" specification is a copy of the specification and any |
|     |    | amendments thereto that were filed in the PTO to obtain the filing date.           |

#### **AMENDMENT**

| П. | (complete as applicable) |   |  |  |  |  |
|----|--------------------------|---|--|--|--|--|
|    | []                       | An amendment in accordance with 37 C.F.R. § 1.121 is attached.  [] The attached amendment cancels claims inclusively. |  |  |  |  |

# TRANSMITTAL OF ENGLISH TRANSLATION OF NON-ENGLISH LANGUAGE PAPERS

| ш.     | [ ] Submitted herewith, is a English translation of the non-English language international application papers as originally filed. It is requested that this translation be used as the copy for examination purposes in the PTO. (See 37 CFR 1.494(b)(2)). |                         |   |                         |                   |
|--------|---|-------------------------|---|-------------------------|-------------------|
|        |   |                         | ing a non-English application, complete item IV(4).<br>In or declaration in the form provided or approved by the P  | PTO need not be tra     | nslated. 37 CFR   |
| NOTE:  | Unlike ti<br>applicati<br>translatio  | on enterin<br>on may be | of an ordinary non-English application (37 CFR 1.52(d) g the U.S. national phase need not be verified. 37 CFR 1.494 required. 37 CFR 1.494(e). Moreover, if the English translation occssing fee is required. | 4(e). If necessary, ho  | wever, a verified |
|        |   |                         | FEES  |                         |                   |
| IV.    | See 37 C  | FR 1.28(a)              | ).  |                         |                   |
| 1.     | Fees fo   | r claims                | •   |                         |                   |
|        |   | []                      | Each independent claim in excess of 3 (37 CFR 1.492(b) \$78.00; Small entity—\$39.00)   |                         | \$                |
|        |   | []                      | Each claim in excess of 20 (37 CFR 1.492(c) - \$18.00; small entity—\$9.00)   |                         | \$                |
|        |   | [X]                     | Multiple dependent claim(s) (37 CFR 1.492(d) - \$280.00;  |                         |                   |
|        |   |                         | small entity—\$140.00)  |                         | \$_280.00         |
| 2.     | Surcha  | rge fees                | Surcharge set forth in § 1.492(e), for accepting th declaration later than 20 months after the priority   |                         |                   |
|        |   |                         | date in filing an application in  | Ð                       |                   |
|        |   |                         | the U.S. as a designated office—\$130.00; small entity—\$65.00  | ,                       | \$                |
| NOTE:  | The proc  | essing fee              | in the next item (Number 3) below is not subject to a reduction   | n for small entity stat | tus.              |
| 3.     |   |                         |   |                         |                   |
|        |   | []                      | Processing fee set forth in § 1.492(f), for acceptar of an English translation later than 20 months after the principal data. \$120.00  |                         | \$                |
|        |   |                         | the priority date—\$130.00  |                         | <b>p</b>          |
| 7.     | [X]   | Assigni                 | ment (See "ASSIGNMENT COVER SHEET".)  |                         | \$40.00           |
| GFREY1 | 00000120  | 10009644<br>280         | .00 OP  | Total fees              | \$320.00          |

04/30/2002 01 FC:968

# **SMALL ENTITY STATUS**

| V. As    | tatemen   | t that this                          | s filing is by a | small entity                           |   |  |  |  |  |
|----------|---|--------------------------------------|------------------|--|---|--|--|--|--|
| NOTE:`   | See 37 CFR 1.28(a).   |                                      |                  |  |   |  |  |  |  |
| •        |   |                                      |                  | Check and complete applicable items    | 5)  |  |  |  |  |
|          | a.  | []                                   | is attached.     |  |   |  |  |  |  |
|          | b.  | []                                   | was filed on     | efund request accompanies th           | is noner  |  |  |  |  |
|          | 0.  | []                                   | A separate i     | -                                      | is paper.   |  |  |  |  |
|          |   |                                      |                  | EXTENSION OF TIME                      |   |  |  |  |  |
| VI.      |   | (complete (a) or (b), as applicable) |                  |  |   |  |  |  |  |
| V 1.     | The proceedings herein are for a patent application. The provisions of 37 C.F.R. § 1.1 36(a)  |                                      |                  |  |   |  |  |  |  |
|          | apply.  (a) [ ] Applicant petitions for an extension of time, the fees for which are set ou C.F.R. § 1.17(a)(1)-(4), for the total number of months checked out below |                                      |                  |  |   |  |  |  |  |
|          | Extens  | ion                                  |                  | Fee for over than                      | Fee for   |  |  |  |  |
|          | (month  |                                      |                  | small entity                           | small entity  |  |  |  |  |
|          |   |                                      |                  | •                                      | ·   |  |  |  |  |
|          | [ ]   | one mo                               |                  | \$ 110.00                              | \$ 55.00  |  |  |  |  |
|          | []  | two mo                               |                  | \$ 400.00                              | \$200.00  |  |  |  |  |
|          | [ ]   | three m                              |                  | \$ 920.00                              | \$460.00  |  |  |  |  |
|          | []  | four months                          |                  | \$1,440.00                             | \$720.00  |  |  |  |  |
|          |   |                                      |                  |  | Fee \$  |  |  |  |  |
| If an ac | lditional   | extensio                             | on of time is r  | equired, please consider this a        | petition therefore.   |  |  |  |  |
|          |   |                                      | (chec            | k and complete the next item, if appli | cable)  |  |  |  |  |
|          | [] An extension for months has already been secured. The fee paid therefor of \$ is deducted from the total fee due for the total months of extension now requested.  |                                      |                  |  |   |  |  |  |  |
|          | Extens  | ion fee d                            | lue with this r  | equest \$                              |   |  |  |  |  |
|          |   |                                      |                  | or                                     |   |  |  |  |  |
|          | (b)   | [X]                                  | conditional      |  | m is required. However, this ide for the possibility that applicant a petition and fee for extension of |  |  |  |  |

# TOTAL FEE DUE

| VII.   | The tot  | al fee d  | ue is:  |   |  | r r  |
|--|--|---|---|---|--|--|
|  | 1  |   | letion fee(s)   | \$ .  | 320.00   | _  |
|  |  |   | sion fee (if any)   | \$_   |  | -<br>-   |
|  |  | ТОТА  | L FEE DUE   | \$_   | 320.00   | -  |
|  |  |   | <b>.</b>  |   | OF FFF   |  |
| VIII.  |  |   | PA  | YMENT   | OF FEES  |  |
| <b>V 1111.</b>   |  | [X]   | Enclosed is a chec  | k in the a  | mount of \$  | 280.00 and \$40.00   |
|  |  | []  | Charge Account N  | •   |  | amount of \$   |
|  |  |   | A duplicate of this   | request i   | s attached.  |  |
| NOTE:  | Fees sho   | ould be ite   | mized in such a manner t  | hat it is clea  | ır for which purp  | pose the fees are paid. 37 CFR 1.22(b).  |
|  |  | A   | UTHORIZATION  | то сна  | ARGE ADDI  | TIONAL FEES  |
| IX.  |  |   |   |   |  |  |
| WARN   | ING:   | Accurat   | ely count claims, especial  | ly multiple   | dependent claim  | s, to avoid unexpected high charges.   |
| NOTE:  | requiring petition under § any consubmission of time | g a petiti<br>for extens<br>1.17, or a<br>current o<br>ion. Subm<br>in any co                 | on for an extension of t<br>sion of time for the appr<br>Il required extension of to<br>r future reply requiring<br>ission of the fee set forth | ime under<br>opriate leng<br>ime fees wil<br>a petition<br>in § 1.17(a) | this paragraph<br>gth of time. An<br>l be treated as a<br>for an extension<br>) will also be tre | rization to treat any concurrent or future reply, for its timely submission, as incorporating a authorization to charge all required fees, fees constructive petition for an extension of time in of time under this paragraph for its timely ated as a constructive petition for an extension n of time under this paragraph for its timely |
| NOTE: "Amounts of twenty-five dollars or less will not be returned unless spector nor will the payer be notified of such amounts; amounts over twenty-frequested, by credit to a deposit account." 37 CFR 1.26(a).   |  |   |   |   |  |  |
|  | [X]  | may b<br>Accou  |   | aper, and   | during the e   | rge the following additional fees that<br>entire pendency of this application, to<br>(filing fees)   |
|  | [X]  |   | R. 1.492(b) (presen   |   |  |  |
| NOTE: Because additional fees for excess or multiple dependent claims not paid<br>be paid, or these claims cancelled by amendment prior to the expirati<br>PTO in any notice of fee deficiency (37 CFR 1.16(d)), it might be best to<br>claim fees, except possibly when dealing with amendments after final act |  | tion of the time period set for response by the not to authorize the PTO to charge additional |   |   |  |  |
|  | [X]<br>[X]   |   | F.R. 1.17 (application<br>F.R. 1.17(a)(1)-(5)(ex  | •   | -  | o § 1.136(a).  |
| WARNII   | VG:  | should i<br>1.136(a   | be made only with the kn  | owledge the<br>1 "quest or  | at: "Submission o  | s of time under § 1.136(a), this authorization<br>of the appropriate extension fee under 37 CFR<br>ension is filed." (Emphasis added). Notice of   |
|  | []   |   | F.R. 1.18 (issue fee a 1.311 (b)).  | at or befo  | re mailing of  | Notice of Allowance, pursuant to 37  |

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 CFR 1.311(b).

NOTE: 37 CFR 1.28(b) requires "Notification of any change in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying . . . issue fee." From the wording of 37 CFR 1.28(b): (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity

[] 37 C.F.R. 1.492(e) and (f) (surcharge fees for filing the declaration and/or an English translation of an international application later than 20 months from the earliest claimed priority date)

WARNING: It is suggested that you always check this last authorization.

SIGNATURE OF PRACTITIONER

Peter F. Corless

(type or print name of practitioner)

Edwards & Angell, LLP

P.O. Box 9169

P.O. Address

Boston, MA 02209

#169136

Reg. No. 33,860

Tel. No.: (617) 439-4444

Customer No. 21874

PFC/GWH (45107).



# UNITED STATES PATENT AND TRADEMARK OFFICE

Convenisaioner for Patents, Box PC United States Patent and Frademark Offic Washington, D.C., 2023

| U.S. APPLICATION NUMBER NO.   | R NO. FIRST NAMED APPLICANT |   | Y. DOCKET NO.   |  |
|---|-----------------------------|---|-----------------|--|
| 10/009,644  | Christoph Arth              | 56513 (45107) INTERNATIONAL APPLICATION NO. |                 |  |
|   |                             |   |                 |  |
| 04074   | •                           | PCT/EP00/04360                              |                 |  |
| 21874 DIKE BRONSTEIN ROBERTS AND CUSI                                 | HMAN. FTE CELLS             | I.A. FILING DATE                            | PRIORITY DATE   |  |
| DIKE, BRONSTEIN, ROBERTS AND CUSI<br>INTELLECTUAL PROPERTY PRACTICE ( | SROUPHEUEIVEU               | 05/16/2000                                  |                 |  |
| EDWARDS & ANGELL, LLP.<br>P.O. BOX 9169<br>BOSTON, MA 02209           | MAR 0 4 2002                |   | AATION NO. 9674 |  |
| DOG 1014, IVIA 02200  |                             | 371 FORMALITIES LETTER                      |                 |  |

Date Mailed: 02/25/2002

# NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fees
- · Copy of IPE Report
- · Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Information Disclosure Statements
- Request for Immediate Examination

FILE Missing PARTS

Edwards & Angell LLF

Dike, Bronstein, Roberts & Cushman

101 Federal St. Boston, MA 02110

Date Rec'd 3/4/02

Docketed For 121. 25 - Auf. 25, 2002

By KR

Approved\_\_\_\_\_

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

 Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTH FROM THE DATE OF THIS NOTICE OR BY 22 or 32 MONTHS (where 37 CFR 1.495 applies) FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Additionally the following defects have been observed:

 Additional claim fees of \$280 as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.

### SUMMARY OF FEES DUE:

Total additional fees required for this application is \$280 for a Large Entity:

- Total additional claim fee(s) for this application is \$280
  - \$280 for multiple dependant claims surcharge.

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

#### LAMONT M HUNTER

Telephone: (703) 305-3686

# PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY, DOCKET NO. |
|-----------------------------|-------------------------------|------------------|
| 10/009,644                  | PCT/EP00/04360                | 56513 (45107)    |

FORM PCT/DO/EO/905 (371 Formalities Notice)